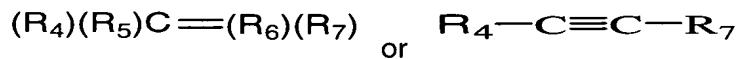


ABSTRACT OF THE DISCLOSURE

This invention relates to copper(+1)(β -diketonate)(L) and related copper complexes such as copper (+1)(β -ketoiminate)(L) represented by the formula:



5 wherein X represents O or NR₉, R₁ and R₃ are each independently comprised of the group C₁₋₈ alkyl, C₁₋₈ fluoroalkyl, aryl, C₁₋₈ alkoxy, and C₁₋₈ alkyl ethers and R₂ is H, C₁₋₈ alkyl, C₁₋₈ alkoxy, and halogen, R₉ is C₁₋₈ alkyl, C₁₋₈ fluoroalkyl, phenyl, alkylphenyl, trialkylsilyl, and L represents a ligand having the structure:



10 wherein R₄ is comprised of the group C₁₋₈ alkanol, C₁₋₈ alkoxyalkanol, C₁₋₈ unsaturated alkoxyalkanol, trialkylsilanol, C₁₋₈ alkylamine, phenylamine; R₅, R₆, and R₇ are comprised of the group H, C₁₋₈ alkyl, trialkylsilyl, alkoxy or phenyl.

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